

# Meeting Minutes

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## West Van Buren (WVB) Water Quality Assurance Revolving Fund (WQARF) Site Community Advisory Board (CAB) Meeting

Thursday, February 19, 2009  
Starting at 6:00 p.m.  
Sunridge Elementary School  
6244 W. Roosevelt Street, Phoenix, Arizona 85007

### **DRAFT MINUTES**

Ref: OU #09-107

CAB members present: Philip Lagas, Peggy Eastburn, and Jeff Littell

ADEQ Staff in attendance: Jennifer Edwards Thies, Project Manager; Kevin Snyder, Project Hydrologist; and Delfina Olivarez, Community Involvement Coordinator

Members of the public present: Mary Moore, Lindon Park N.A.; Kevin Murdock, CH2M Hill; Mel Paul, Private – Phoenix, AZ.; Judy Heywood, APS; Andrea Markowitz, Citizen - Cave Creek, AZ.; Greg Wallace, Errol L. Montgomery & Associates, Inc.; David Weed, ChemResearch Co. Inc.; David Kirchner, Basin & Range Hydrogeologists, Inc.

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The following matters were discussed, considered, and decided upon at the meeting:

#### **1. Call to Order/Introductions**

Ms. Olivarez thanked everyone for attending, conducted introductions and then turned the meeting over to the Co-Chair, Mr. Lagas.

#### **2. Acceptance and/or Changes to November 18, 2008 Minutes**

Mr. Lagas asked if everyone read the minutes and had any changes. Mrs. Eastburn moved to accept the minutes as written. The motion was seconded by Mr. Littell. All agreed to accept the motion, and the minutes were approved.

#### **3. Third quarter sampling results and draft Remedial Investigation (RI) Report progress – Jennifer Edwards Thies, Project Manager**

Using a WQARF process map Ms. Thies showed WVB is in the RI phase. She then updated everyone on events since the November 2008 CAB meeting. Ms. Thies elaborated on 3<sup>rd</sup> quarter monitoring, the October well installation, comments to the draft RI Report and budget reorganizations.

**See presentation below**

**Questions:**

Mr. Lagas asked what the schedule for finalizing the RI Report is. Ms. Thies responded that there was a more aggressive schedule before the budget cuts changed the schedule. Mr. Lagas asked if we had to do the Remedial Objectives Report, which is part of the final RI Report and requires a series of meetings. Ms. Thies responded yes, and at least one meeting is required.

**4. Discussion of CAB Charter and Co-Chair positions – Delfina Olivarez, Community Involvement Coordinator**

Ms. Olivarez explained that the WVB CAB Charter and Co-Chair positions have not been updated since December 2006. No changes were requested/made to the Charter. Mr. Lagas asked for nominations of new Co-Chairs. None were nominated. Mr. Lagas asked if Mrs. Eastburn would like to do another term with him. Mrs. Eastburn replied yes. Mr. Lagas asked if all were in favor of keeping the same Co-Chairs, and all replied yes.

**5. \*Call to the Public**

Ms. Moore asked if we were going to have a meeting to go over the comments submitted for the RI Report. Ms. Thies responded that a responsiveness summary is done, which goes into the Final Report. The comments are available in the responsiveness summary, and the public can request a copy from ADEQ's Records Management Department.

**7. Next meeting date and Agenda discussion**

Mr. Lagas asked if the next meeting could tentatively be scheduled for May 7, 2009, 6:00 p.m. at Sunridge Elementary School. Mr. Lagas wanted a discussion of RI comments to be on the agenda. Ms. Olivarez explained that because of budget cuts mass mailings are being periodically stopped and that communications from now until further notice will be via email, phone and only mail if necessary. Ms. Olivarez explained that CAB meetings would be fewer in frequency, and she invited all interested parties that want to receive future site updates to let her know and they will be put on a list to receive the updates via email or phone. Ms. Olivarez asked the CAB to help spread information that ADEQ shares with them with their neighbors and friends.

**8. Adjournment**

Mr. Lagas motioned to adjourn, all seconded and agreed, and the meeting adjourned.

# West Van Buren WQARF Site

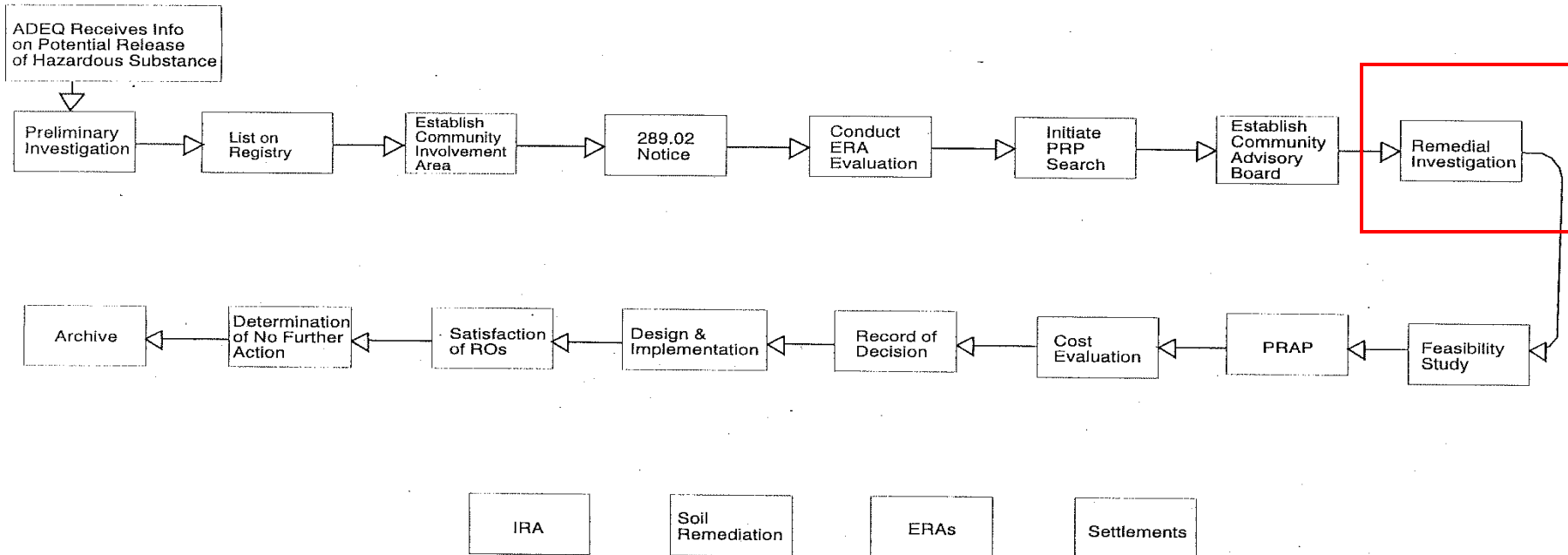
Jennifer Edwards Thies, Project Manager

Kevin Snyder, Project Hydrologist

February 19, 2009

# WQARF process map

## GENERAL WQARF PROCESS 03/27/02



## Events since the November 2008 CAB meeting

- Completed semi-annual sampling event during third quarter 2008 and received draft copy of the report for this event.
- Received draft well installation report for the October well installation.
- Received comments to the draft RI report.
- Budget cuts eliminate Spring sampling event.

# **2008 Third Quarter Semi-Annual Groundwater Monitoring Event**

**(includes sampling and water level  
measurements)**

- 91 monitoring wells sampled out of 118 total.(added 2 wells and didn't sample 6 tank farm wells)
- 24 were dry and 3 wells were inaccessible.
- 23 RID wells were sampled during this event.
- 40 wells sampled using Passive Diffusion Bag (PDB) Samplers.

# 2008 September Semi-Annual Groundwater Laboratory Results

- The Halogenated Contaminates of Concern (COCs) are PCE, TCE, 1,1-DCE, *cis* 1,2-DCE, 1,1-DCA and TCA. The highest concentration in micrograms/Liter ( $\mu\text{g/L}$ ).

COC	Well	$\mu\text{g/L}$	(Sept. results)
PCE	AVB100-01	70	(AVB100-01 @ 170)
TCE	AVB127-01	170	(AVB120-02 @ 160)
1,1-DCE	AVB82-01	27	(AVB134-01 @ 28)
<i>cis</i> -1,2-DCE	AVB127-01	36	(AVB85-01 @ 28)
1,1-DCA	AVB116-02 & AVB134-01	13	(AVB116-02 & PS-1 @ 13)
TCA	Not detected		(PS-1 @ 0.96)

- 13 monitoring wells exhibited total chromium concentrations at or above Aquifer Water Quality Standards (AWQS) of 0.1 mg/L. There were no dissolved chromium concentrations above the AWQS.



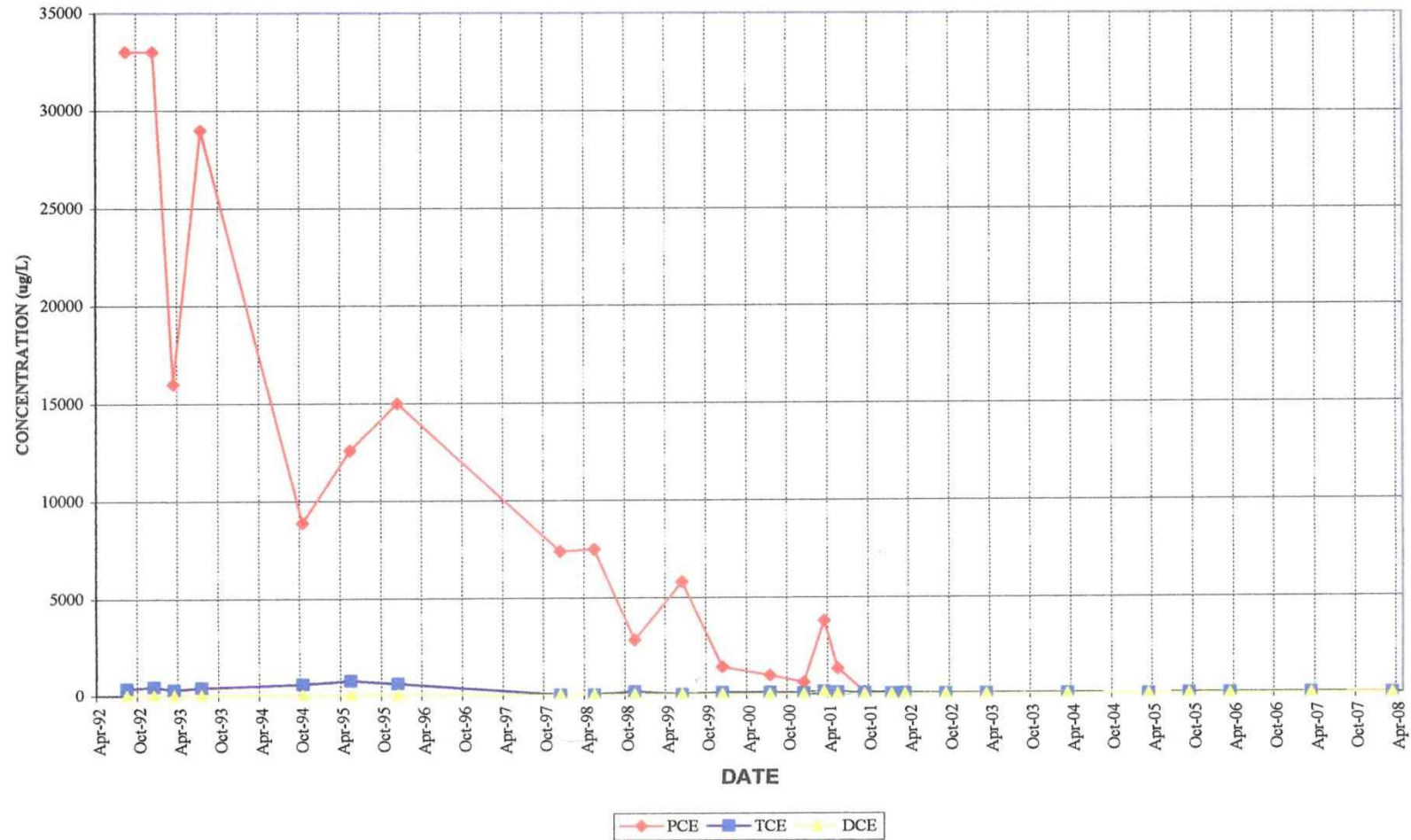


## Upper Aquifer Unit (UAU1) Results

- PCE, TCE, 1,1-DCE exceed their AWQS at multiple locations. PCE extends from the eastern border to approximately 71<sup>st</sup> Ave. TCE extends from the eastern border to approximately 69<sup>th</sup> Ave. 1,1-DCE extends from the eastern border to approximately 35<sup>th</sup> Ave. Concentrations are similar to previous two rounds of groundwater sampling.
- Overall decrease in water levels since March 2008. Water levels have decreased approximately 10.5 feet over the last 6 months.

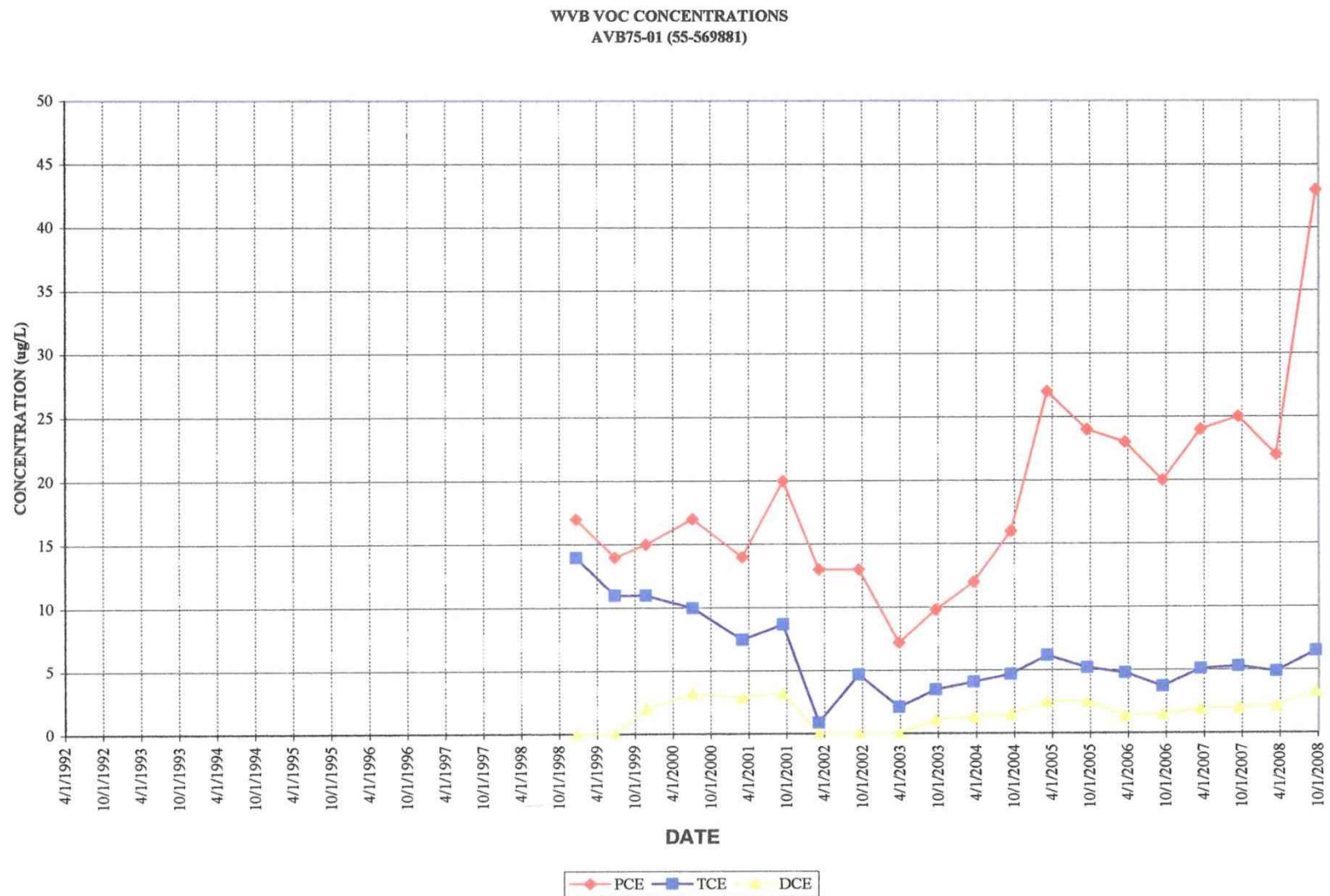
# Eastern UAU1

WVB VOC CONCENTRATIONS  
AVB40-07 (55-536227)

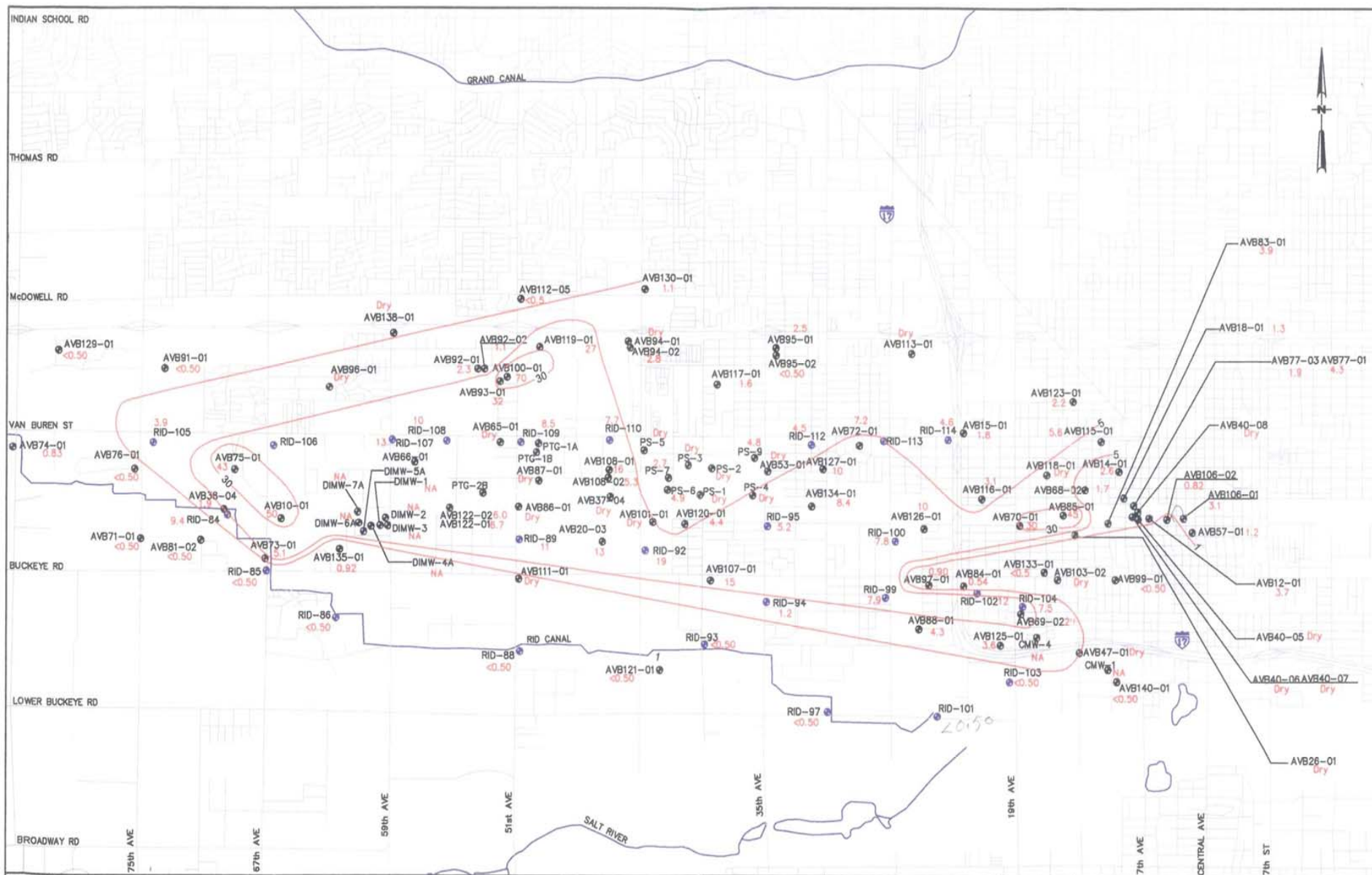


NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.

# Western UAU1



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.



**LEGEND**

AEW11-06 - WELL IDENTIFICATION NUMBER

11 - TETRACHLOROETHENE (ug/l)

- PCE CONCENTRATION CONTOUR (ug/l)

NS - NOT SAMPLED

○ - APPROXIMATE WELL LOCATION

NA - NOT AVAILABLE

W:\FILES\PROJECTS\03103154\Phase 1\3rd qtr 08\Figure 3.1 UAU1 PCE CONCENTRATIONS.dwg

**NOTE**

SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		



**FIGURE 3.1**

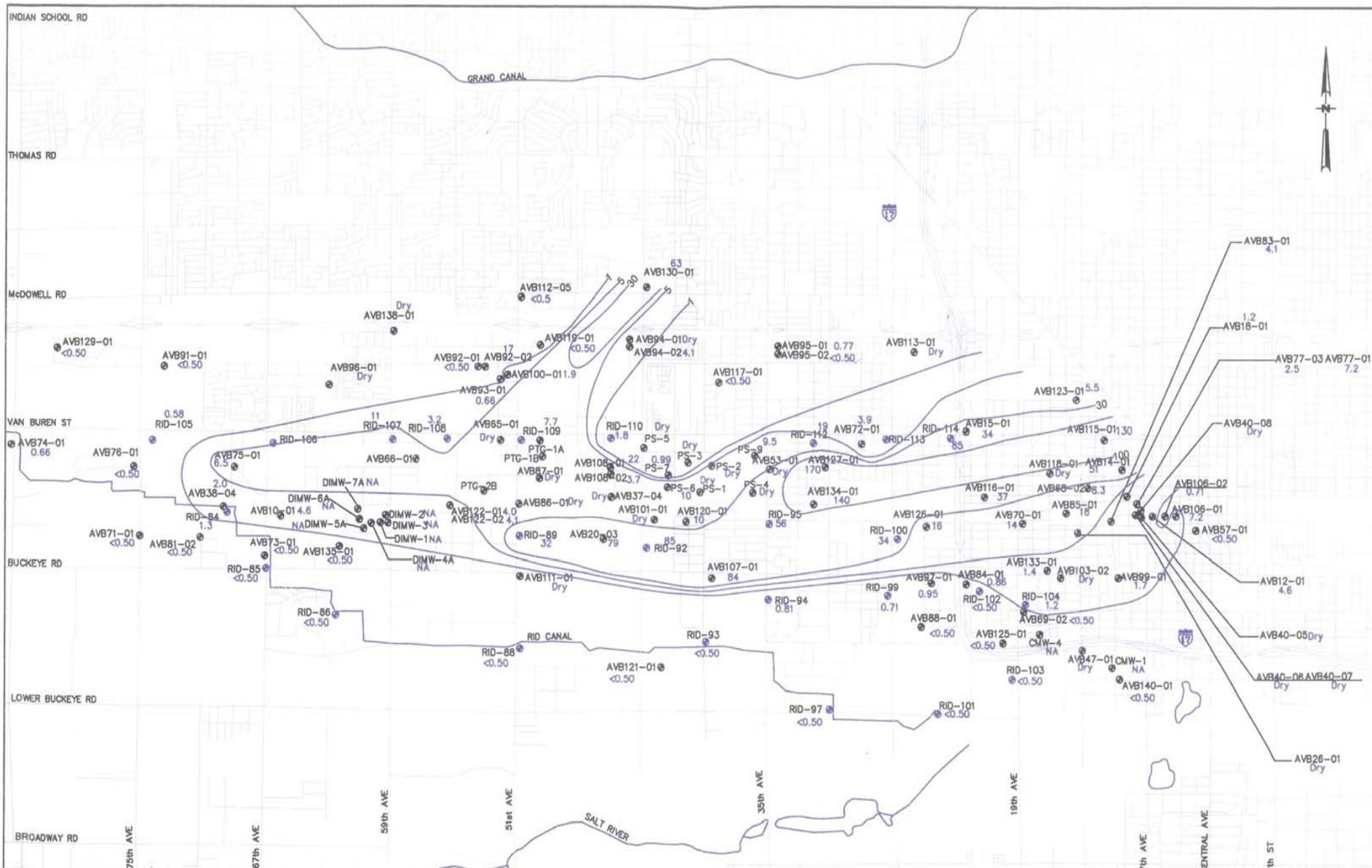
UAU 1 PCE CONCENTRATIONS

THIRD QUARTER 2008

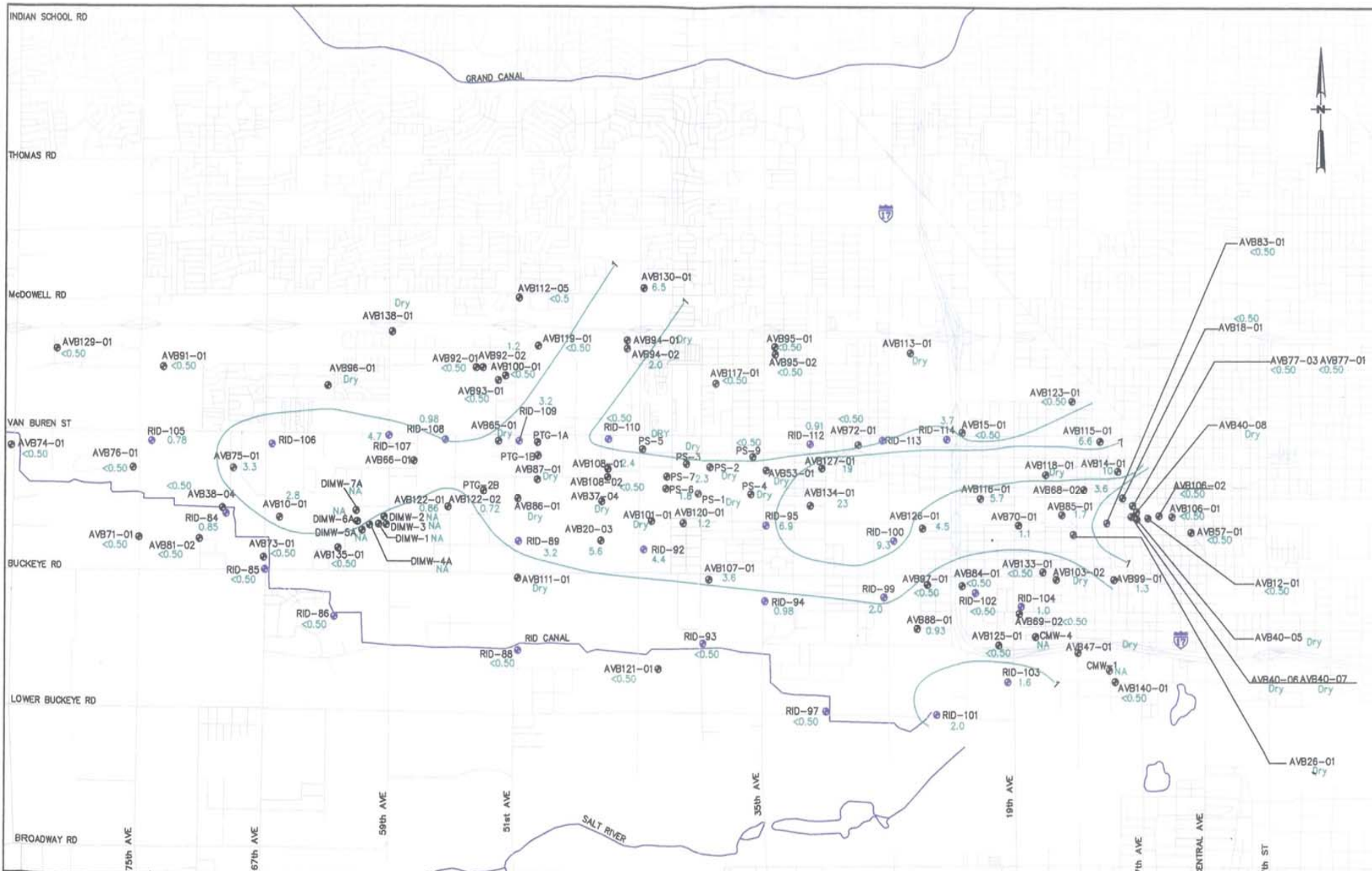
WEST VAN BUREN AREA WQRF SITE

PHOENIX, ARIZONA





<b>LEGEND</b> AEW11-05 - WELL IDENTIFICATION NUMBER 11 - TRICHLOROETHENE (ug/l) --- TCE CONCENTRATION CONTOUR (ug/l) NS - NOT SAMPLED ○ - APPROXIMATE WELL LOCATION NA - NOT AVAILABLE		<b>NOTE</b> SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.		PROJ. #: 03103154-19 DRAWN BY: DAG DESIGNED BY: AJG APPROVED BY: AJG	DATE: 11/06/08 SCALE: 1"=3600'		<b>FIGURE 3.2</b> UAU 1 TCE CONCENTRATIONS THIRD QUARTER 2008 WEST VAN BUREN AREA WQAR SITE PHOENIX, ARIZONA
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**LEGEND**  
 AEW11-06 - WELL IDENTIFICATION NUMBER  
 1.1 - 1,1 - DICHLOROETHENE (ug/l)  
 1.1 - DCE CONCENTRATION CONTOUR (ug/l)  
 NS - NOT SAMPLED  
 @ - APPROXIMATE WELL LOCATION  
 NA - NOT AVAILABLE

**NOTE**  
 SOURCE DATA FOR BASEMAP FROM  
 THE ARIZONA DEPARTMENT OF  
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		



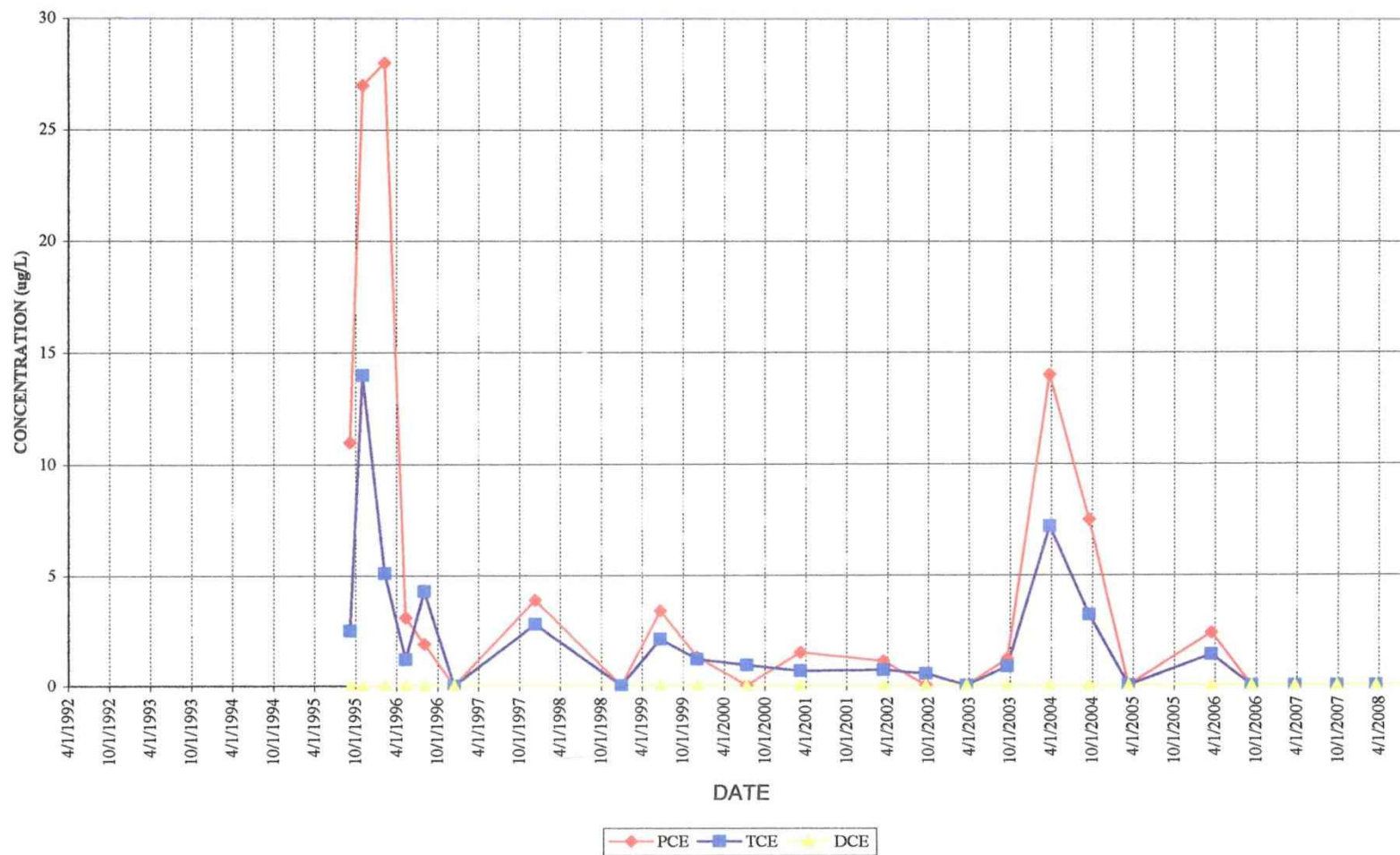
**FIGURE 3.3**  
 UAU 1,1 - DCE CONCENTRATIONS  
 THIRD QUARTER 2008  
 WEST VAN BUREN AREA WQARF SITE  
 PHOENIX, ARIZONA

## Upper Aquifer Unit (UAU2) Results

- PCE, TCE, 1,1-DCE exceed their AWQS at multiple locations; PCE extends from the eastern border to approximately 71<sup>st</sup> Ave. TCE exceeds the AWQS from the eastern boundary to approximately 67<sup>th</sup> Ave. 1,1,-DCE exceeds the AWQS from the eastern boundary to approximately 35<sup>th</sup> Ave. These results are generally similar to those observed during the previous two rounds of groundwater sampling.
- Water levels have decreased approximately 11 feet over the last 6 months.

# Eastern UAU2

WVB VOC CONCENTRATIONS  
AVB106-03 (55-549233)

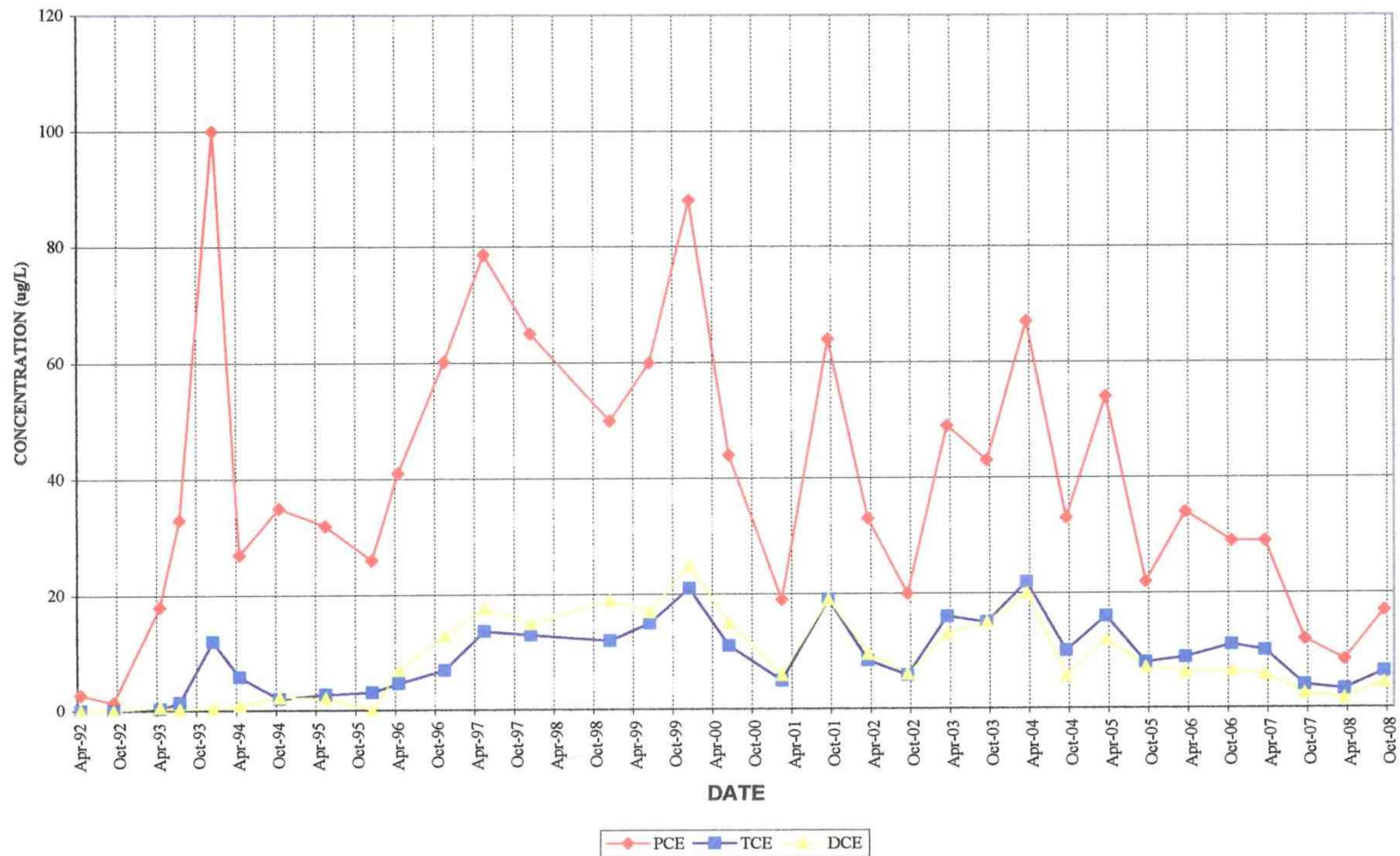


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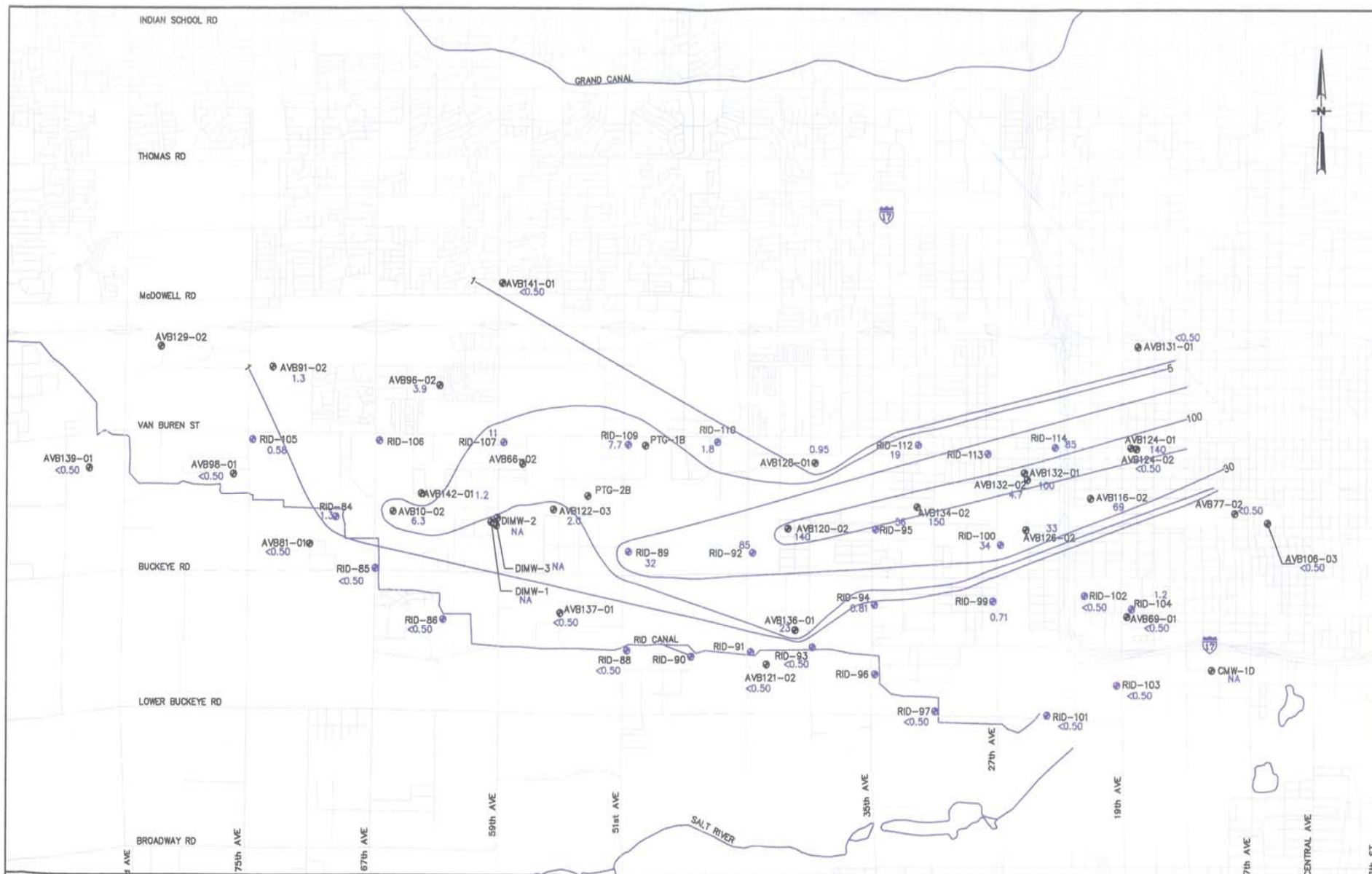
# Western UAU2

WVB VOC CONCENTRATIONS  
AVB10-02 (55-532042)



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.





**LEGEND**  
 AEW11-06 - WELL IDENTIFICATION NUMBER  
 11 - TRICHLOROETHENE (ug/l)  
 --- TCE CONCENTRATION CONTOUR (ug/l)  
 NA - NOT AVAILABLE  
 ● - APPROXIMATE WELL LOCATION

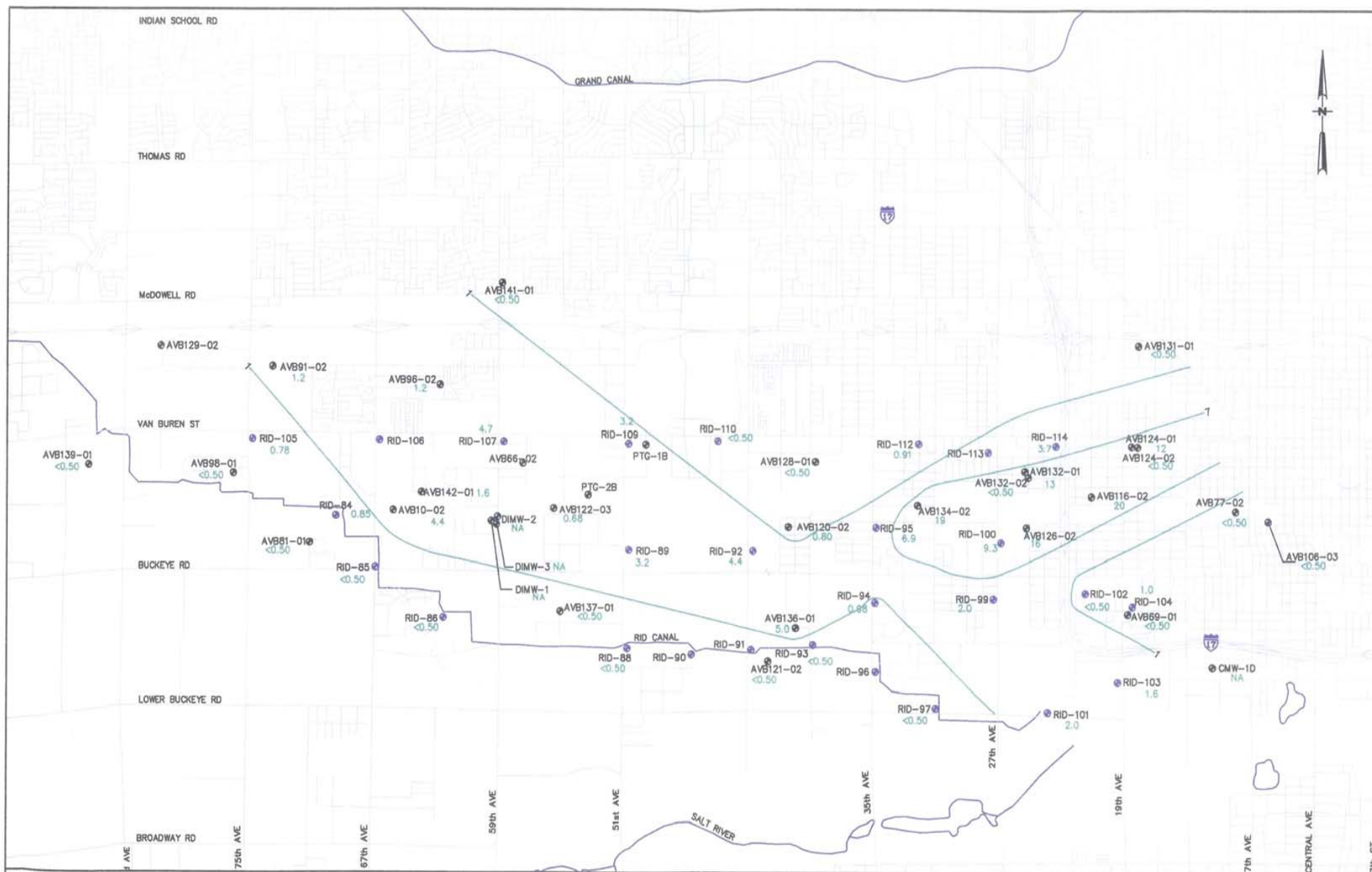
**NOTE**  
 SOURCE DATA FOR BASEMAP FROM  
 THE ARIZONA DEPARTMENT OF  
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		



**FIGURE 3.5**  
 UAU 2 TCE CONCENTRATIONS  
 THIRD QUARTER 2008  
 WEST VAN BUREN AREA WQARF SITE  
 PHOENIX, ARIZONA





PROJ. #:	03103154-19	DATE:	11/06/08
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APPROVED BY:	AJG		

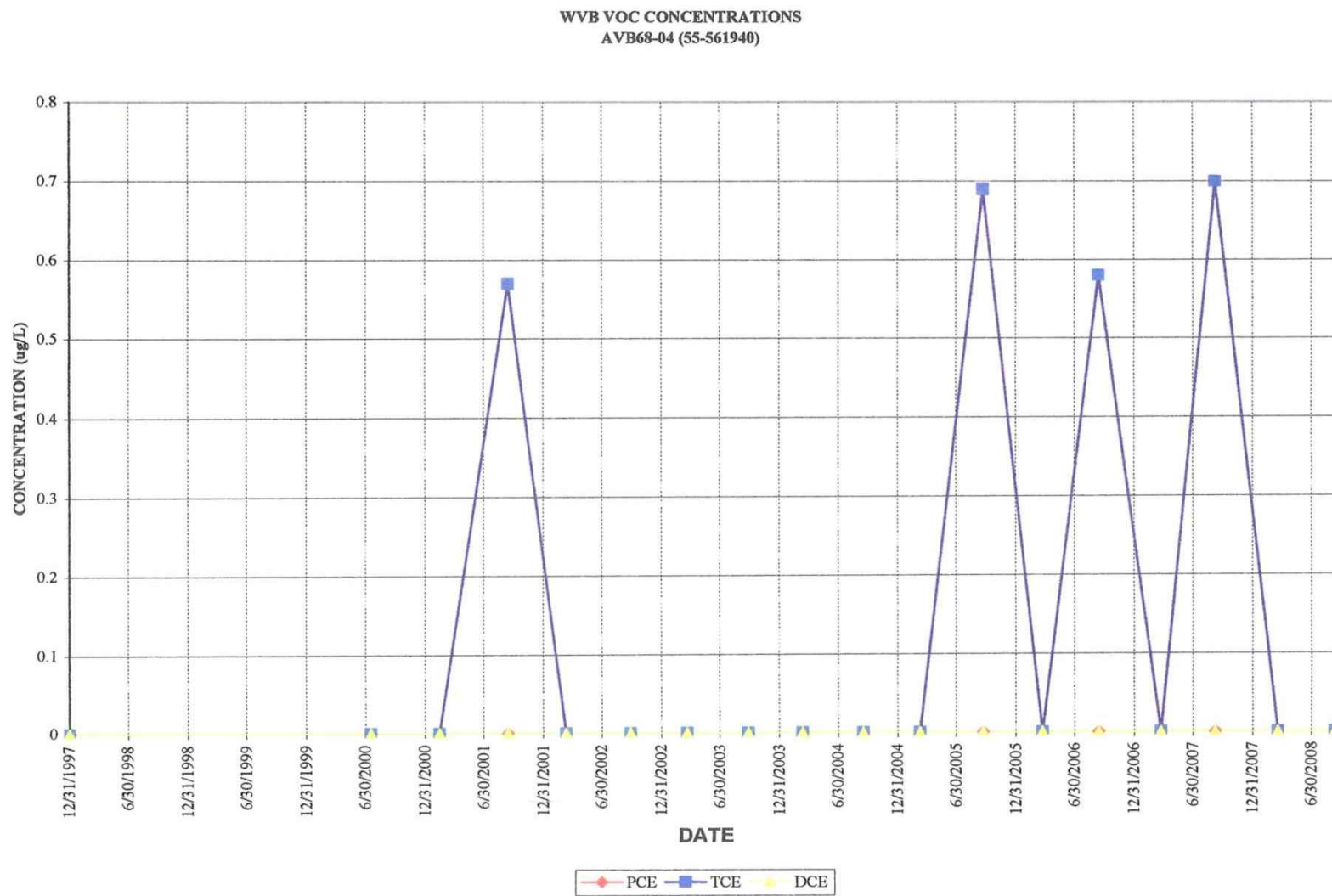


**FIGURE 3.6**  
 UAU 2 1,1-DCE CONCENTRATIONS  
 THIRD QUARTER 2008  
 WEST VAN BUREN AREA WQARF SITE  
 PHOENIX, ARIZONA

## Middle Alluvial Unit (MAU1) Results

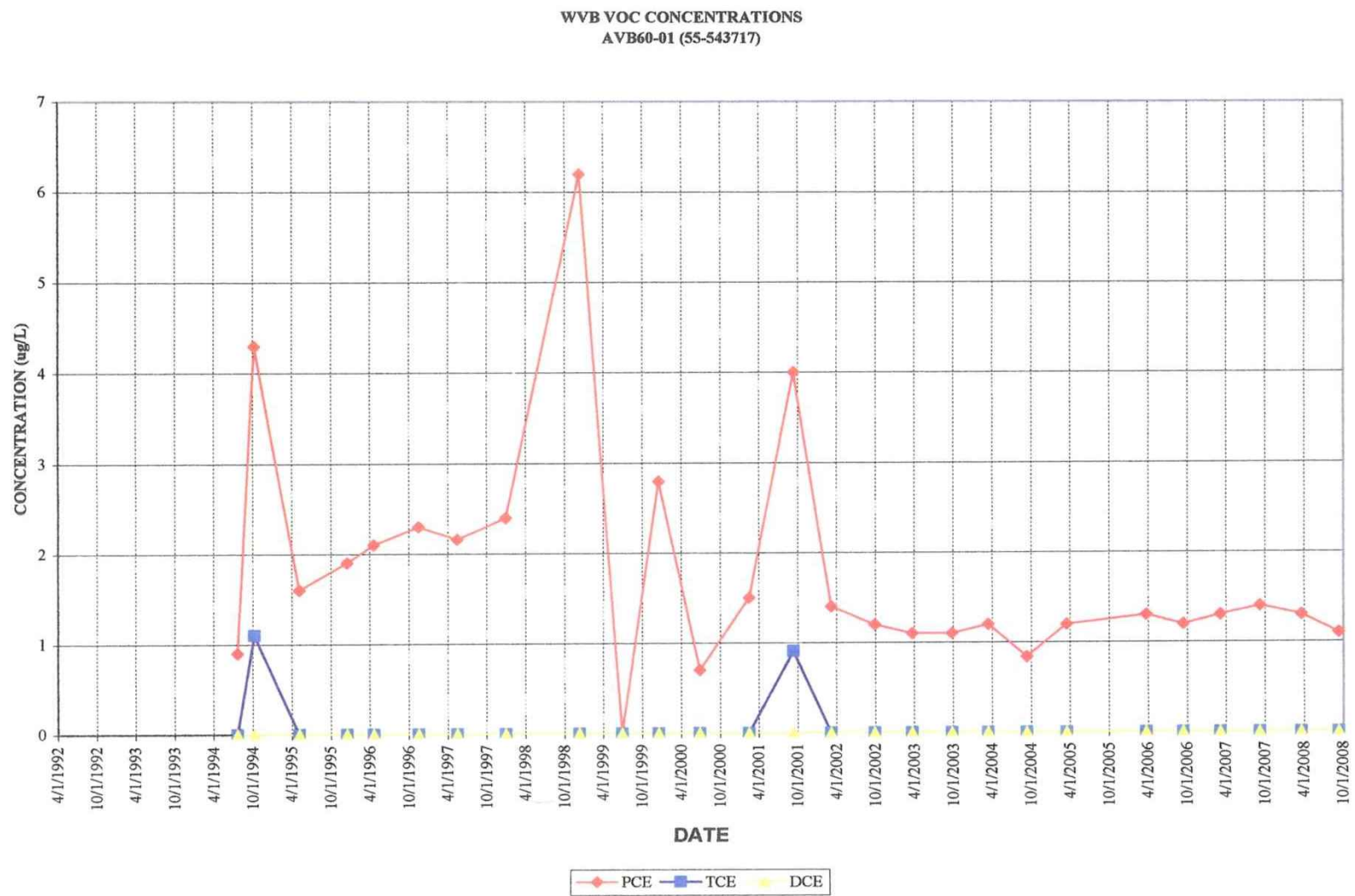
- PCE, TCE, 1,1-DCE exceeded their AWQS, at well AVB82-01 only. PCE also exceeded the AWQS for PCE at well AVB82-02.
- Water levels have decreased approximately 13 feet over the past six months

# Eastern MAU

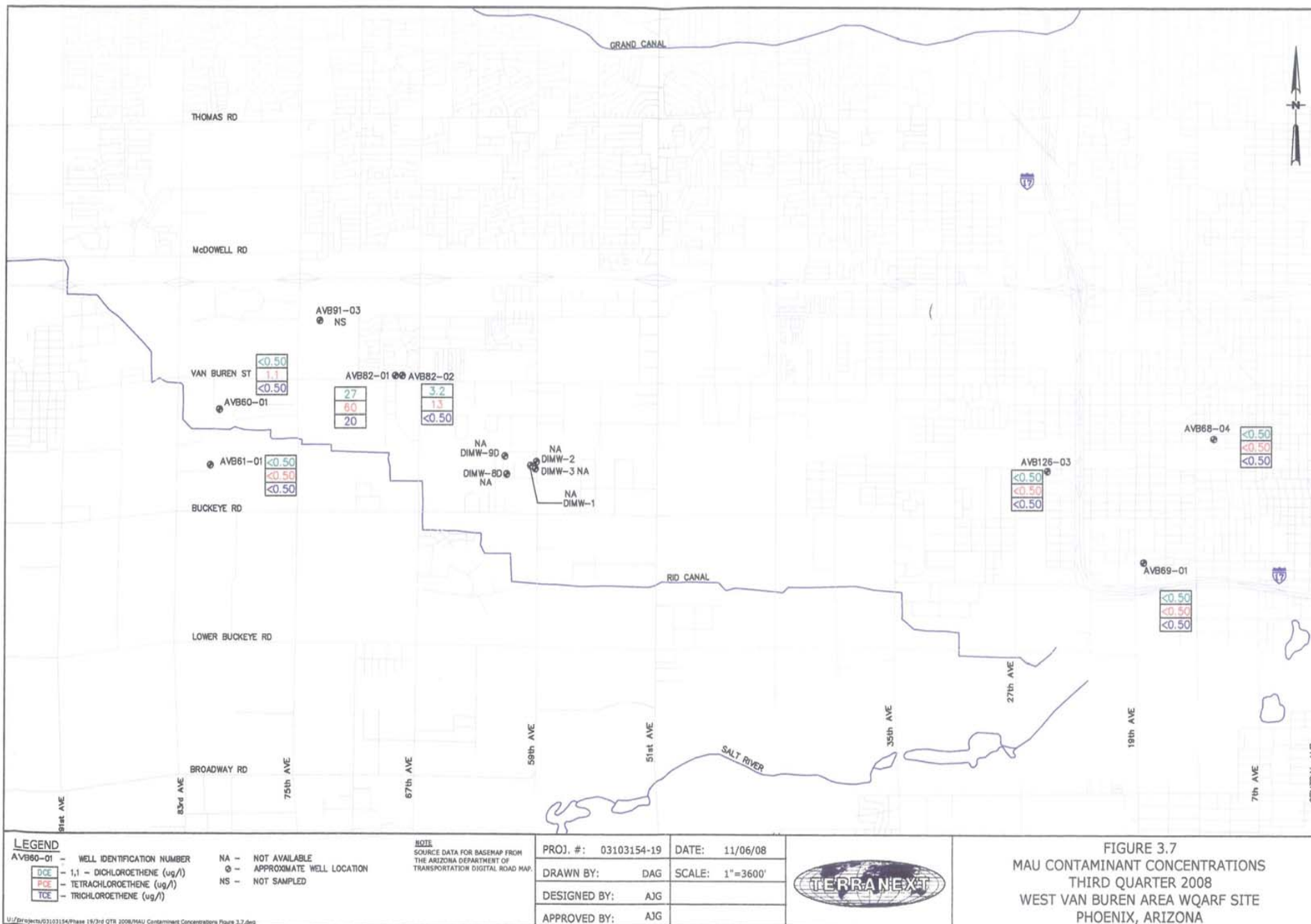


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# Western MAU



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.





# Well Drilling Event For October 2008

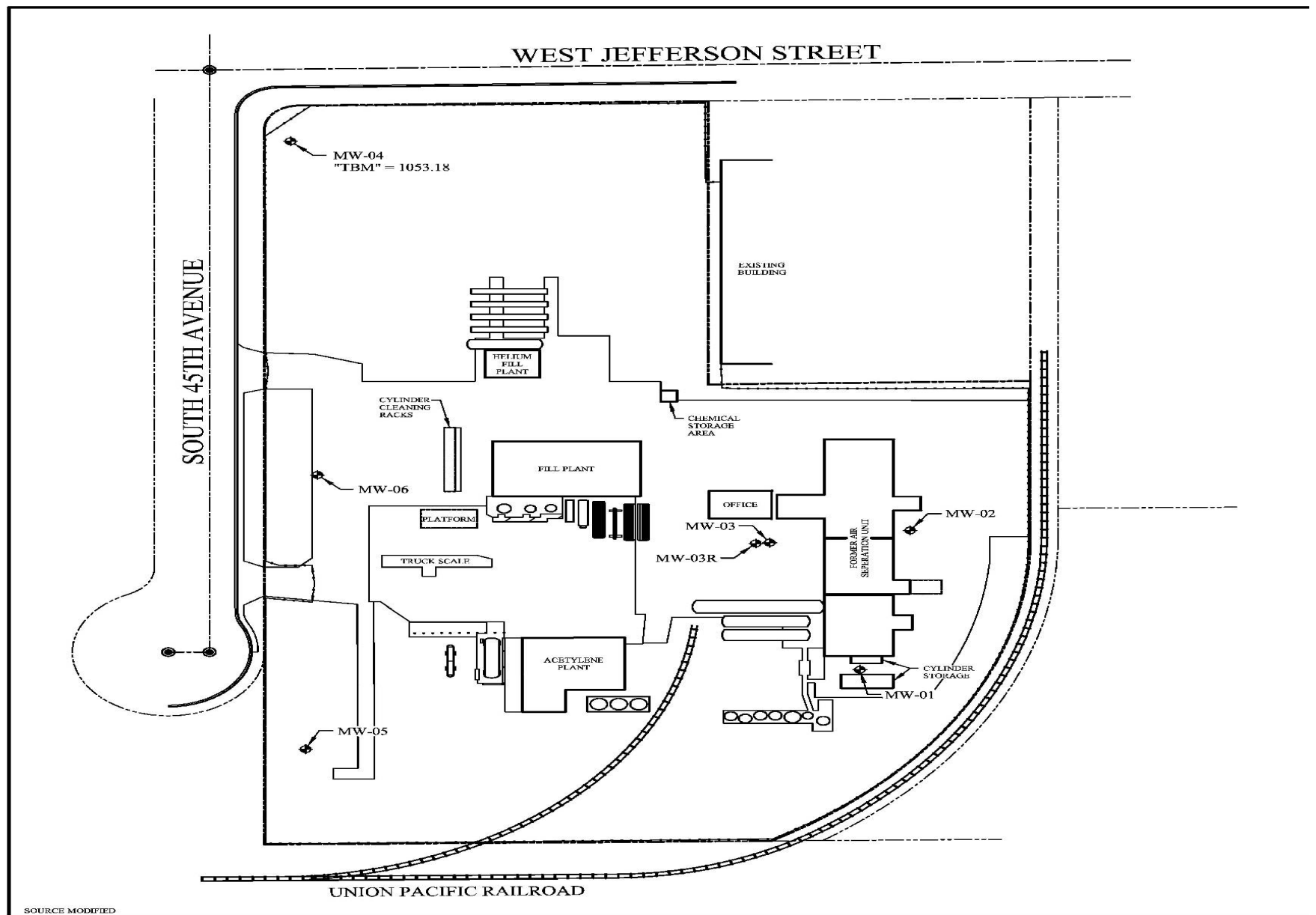
- A well was drilled within Smith Park (Grant St. and 41<sup>st</sup> Ave) to provide better definition of contaminant concentrations and assist in identifying the horizontal and vertical extent of groundwater contamination.
- The well was drilled into the MAU to 350 below ground surface.

## Investigation is being conducted by Air Liquide America Specialty Gases LLC

- Air Liquide America Specialty Gases LLC installed 4 additional onsite groundwater monitor wells at their facility at 301 S. 45<sup>th</sup> Ave.
- Water-level measurements are collected on a monthly basis.
- Groundwater samples were collected in February, March, June and September and December 2008.

# Investigation is being conducted by Air Liquide America Specialty Gases LLC

- COCs detected in groundwater samples at Air Liquide include: PCE, TCE, 1,1-DCE, cis 1,2-DCE, 1,1-DCA and TCA.
- COCs exceeding the AWQS include: PCE and TCE
- Air Liquide submits monthly status reports
- Air Liquide has submitted the well completion report
- ADEQ is awaiting water quality data reports for 1<sup>st</sup> qtr, 2<sup>nd</sup> qtr and 3<sup>rd</sup> qtr 2008



## Investigations being conducted by Prudential Overall Supply

- Prudential Overall Supply has conducted a passive soil vapor study and installed 3 groundwater monitor wells at their facility at 5102 W. Roosevelt St.
- COCs detected in the soil vapor include: PCE, TCE and 1-2 DCE.
- Groundwater samples were collected in August, September and December 2008.

# Investigations being conducted by Prudential Overall Supply

- COCs detected in groundwater samples include: PCE, TCE and cis-1,2 DCE.
- COCs exceeding the AWQS include: PCE and TCE.
- Prudential has submitted 45-day status reports along with a monitor well installation report, a passive soil vapor survey report and an additional active soil gas sampling work plan and 4<sup>th</sup> qtr 2008 groundwater monitoring report.



# Draft Remedial Investigation Report

- Terranext on behalf of ADEQ issued the draft remedial investigation (RI) report for WVBA to meet the requirements established under Arizona revised Statutes (ARS) §49-287.03 and Arizona Administrative Code (AAC) R18-16-406.
- The public notice on the availability of the draft RI was issued on Friday October 31, 2008 in the Arizona Republic. The notice was also posted in La Voz on Saturday November 1, 2008.
- These notices started a 60-day comment period. Comment period ends on December 30, 2008.



# Draft Remedial Investigation Report

- Comments were received from 5 parties:
  - Brown and Caldwell
  - EPA's Superfund program – Region 9
  - Univar USA, Inc.
  - Lindon Park Neighborhood Association
  - Roosevelt Irrigation District
- Air Liquide America LP submitted a name change to Air Liquide America Specialty Gases LLC
- All comments will be addressed in a Responsiveness Summary and included in the final copy of the RI report.

## Future Planned Work

- Review comments to the draft RI report and prepare responsive summary.
- Prepare ROs.
- Finalize 3<sup>rd</sup> Qtr Groundwater Monitoring report.
- Finalize Well Installation report.